

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

| Applicantia | Or co | ant's file reference | <u> </u> | |
|---|-------------|---|---|---|
| Applicant's or agent's file reference P006488WOCTH International application No. PCT/IB00/00869 | | | FOR FURTHER ACTION | See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) |
| | | | International filing date (day/mont | th/year) Priority date (day/month/year) |
| | | | 15/06/2000 | 17/06/1999 |
| Internation C12N15 | | ent Classification (IPC) or na | ational classification and IPC | |
| DANISC | O A/ | S et al. | | |
| | | ational preliminary exam smitted to the applicant a | | ed by this International Preliminary Examining Authority |
| 2. This | REPO | ORT consists of a total of | 4 sheets, including this cover s | sheet. |
| t | een a | amended and are the ba | | the description, claims and/or drawings which have containing rectifications made before this Authority tions under the PCT). |
| Thes | e ann | nexes consist of a total of | f sheets. | |
| 3. This | repor | t contains indications rela | ating to the following items: | |
| 1 | \boxtimes | Basis of the report | | |
| II | | Priority | | |
| Ш | | Non-establishment of o | opinion with regard to novelty, in | nventive step and industrial applicability |
| IV | | Lack of unity of invention | on | |
| V | × | | nder Article 35(2) with regard to ons suporting such statement | o novelty, inventive step or industrial applicability; |
| VI | | Certain documents cit | ed | |
| VII | | Certain defects in the in | nternational application | • |
| VIII | | Certain observations o | n the international application | • |
| Date of sul | omissi | on of the demand | Date of | f completion of this report |
| 04/01/20 | 01 | | 18.09.2 | |
| | | g address of the internationa | al Authori | ized officer |
| preliminary | Euro D-8 | ining authority: opean Patent Office 0298 Munich +49 89 2399 - 0 Tx: 52365 | Ury, A | |
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/IB00/00869

| 1 | Basi | SO | f th | e re | port | Ė |
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| 1. | With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages: | | | | | |
|----|---|--|---|--|--|--|
| | 1-68 | 8 | as originally filed | | | |
| | Cla | ims, No.: | | | | |
| | 1-3 | 3 | as originally filed | | | |
| | Drawings, sheets: | | | | | |
| | 1/1 | | as originally filed | | | |
| | Sec | quence listing par | t of the description, pages: | | | |
| | 1-7, | , filed with the letter | r of 25.09.00 | | | |
| 2. | With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. | | | | | |
| | The | ese elements were | available or furnished to this Authority in the following language: , which is: | | | |
| | | the language of a | translation furnished for the purposes of the international search (under Rule 23.1(b)). | | | |
| | | the language of p | ublication of the international application (under Rule 48.3(b)). | | | |
| | | the language of a 55.2 and/or 55.3). | translation furnished for the purposes of international preliminary examination (under Rule | | | |
| 3. | . With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: | | | | | |
| | ☒ | contained in the ir | nternational application in written form. | | | |
| | | filed together with | the international application in computer readable form. | | | |
| | | furnished subsequ | uently to this Authority in written form. | | | |
| | \boxtimes | furnished subsequ | uently to this Authority in computer readable form. | | | |
| | × | | at the subsequently furnished written sequence listing does not go beyond the disclosure in application as filed has been furnished. | | | |
| | × | The statement that listing has been fu | at the information recorded in computer readable form is identical to the written sequence urnished. | | | |

4. The amendments have resulted in the cancellation of:

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International application No. PCT/IB00/00869

| | | the description, | pages: | |
|----|--|---|---------|--|
| | | the claims, | Nos.: | |
| | | the drawings, | sheets: | |
| 5. | | ☐ This report has been established as if (some of) the amendments had not been made, since they have be considered to go beyond the disclosure as filed (Rule 70.2(c)): | | |
| | (Any replacement sheet containing such amendments must be referred to under item 1 and annexed to report.) | | | |
| | | | | |

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 1-23

No:

Claims 24-33

Inventive step (IS)

Yes:

Claims 1-23

No:

Claims 24-33

Industrial applicability (IA)

Claims 1-33

Yes: No: Claims

2. Citations and explanations see separate sheet

Reference is made to the following documents:

D1: WO 97 03574 A (BUCHHOLT HANS CHRISTIAN ;KREIBERG JETTE DINA (DK); DANISCO (DK); N) 6 February 1997 (1997-02-06) cited in the application D2: EP-A-0 271 988 (ICI PLC) 22 June 1988 (1988-06-22) cited in the applicat ion

D3: EP-A-0 577 252 (UNIV ARIZONA) 5 January 1994 (1994-01-05)

- The present invention is based on a process for modifying a pectin by differentially I) regulating the level of expression of PME and PG so that the PG activity is silenced (e.g. by use of an antisense method) and an elevated ratio of PME to PG is obtained. This process (which leads to PME enriched extracts (claim 1) and PME modified pectin (claim 8) imparting increased functionality to food products in term of a lowered viscosity and a longer shelf-life) is neither disclosed nor suggested by the prior art documents cited in the ISR. Consequently, the subject-matter of claims 1-23 is novel and inventive (Article 33.2 and 3 PCT).
- Document D1 discloses a PME modified pectin having the same features as the II) PME modified pectin claimed in present claims 24, 26, 27 (see e.g. pages 8, 11-12 of D1). Page 14, lines 1-2 of D1 indeed states that the pectine is not a pectine that has been prior treated with the enzyme PG to substantially reduce the length of the pectine backbone.

The foodstuff according to claim 25 is also disclosed in D1 (see e.g. pages 10-11). As well, the uses according to present claims 31-33 are disclosed in D1 (see the relevant passages pages 5-12).

Thus, the subject-matter of claims 24-27 and 31-33 lack novelty under Article 33.2 PCT over D1.

Documents D2 (see e.g. pages 2-3) and D3 (see e.g. page 4) destroy the novelty III) Article 33.2 PCT of present claims 28-30.